UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

MEMORANDUM: Jan 24, 2018

Subject: Data Review for a new DCOIT (3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-) Wood Preservative Product: VIANCE 11-2016 by VIANCE, LLC

PC Code(s): 128101	DP Barcode(s)/No(s): 442083
Decision No.: 531609	Registration Number (s): 83997-RG-VIANCE 11-2016
Petition No(s).: NA	Regulatory Action: Data Review
Risk Assess Type: NA	Case No(s): 0403
MRID No(s).: 50190306, 50335202, 50190313, 50190314, 50335204, 50335205	CAS No(s): 64359-81-5

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The Agency has conducted a data review of studies submitted in support of the proposed new DCOIT (3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-) product, tradename VIANCE 11-2016 (EPA Reg. No. 83994-RG) by Viance, LLC. This product is manufactured from the registered [redacted] and is intended to be used as a wood preservative for above ground and in-ground industrial uses which include utility poles and cross arms and road and rail bridge timbers.

Product ingredient source information may be entitled to confidential treatment

The Agency completed a technical screen on October 25, 2017. The tech screen passed pending an update to the data matrix to include appropriate environmental fata data and the submission of a honeybee study or waiver for 850.3020. These documents along with an updated label were submitted Jan 4, 2018.

The submission package for the registration of VIANCE 11-2016 as a wood preservative is complete. **All studies and waivers reviewed in support of this proposed new use are acceptable.**

The Agency received various studies and waivers in support of the new product. The summary of their results are provided below:

MRID 50190306 is a local lymph node assay (LLNA) in mice in support of GLN 870.2600. This study is an acceptable study. This study concluded the product (VIANCE 11-2016) is a dermal sensitizer.

MRID 50190313 and 50190314 detail the environmental risk of using DCOIT as a wood preservative. The assessments reference the required studies needed by the Agency to complete an environmental risk assessment. They include data on the parent chemical as well as two of its degradates. They did not present new endpoints and therefore did not require further review.

MRID 50335202 is a wood wipe study that would be used to assess residential exposures to wood treated with DCOIT. A review was not performed at this time for MRID 50335202 because residential exposures are not anticipated for the uses included on the proposed label. Results from the study may be reviewed and utilized during registration review if it is determined that a residential exposure assessment is needed.

MRID 50335204 is a Standard Method for Accelerated Evaluation of Preservative Leaching study in support of AWPA E11-06/12 test guideline. The maximum leaching rates ranged from 3.7-14.9 $\mu g/cm^2$/day and the time-weighted 14-day average concentrations ranged from 2.9-7.4 $\mu g/cm^2$/day. The total amount of DCOIT leached ranged from 9-10 %.

MRID 50335205 is a soil depletion study in support of AWPA E20-08 test guideline. In the Harrisburg clay soil, the depletion rate was 11.5 % for the 2.5 % treatment rate and was 13.5 % for the 3.1 % treatment rate. In the Mooresville silty clay loam soil, the depletion rates were 29.9 % at the 2.5 % treatment rate and 27.4 % at 3.1 % treatment rate.

MRID 50492901 is a waiver submitted in support of the Honeybee Acute Toxicity study GLN 850.3020. The waiver request is granted based on a lack of exposure to honey bees. The use sites are treated wood products (utility poles, cross arms and industrial bridge timbers) that are not expected to transfer the chemical to soil, seed or foliar surfaces that could be contacted or ingested by bees. Since the method of application is a closed system, there would be no direct release of the product to the environment and no exposure to bees.

MRID References:

50190306. Lowe, C. (2017) Viance 11-2016: Local Lymph Node Assay (LLNA) in Mice. Project Number: 44554, P327, 44545. Unpublished study prepared by Product Safety Laboratories. 33p.

50190313. Carbone, J. (2011) Environmental Risk Assessment of DCOIT for Wood Preservative Applications. Project Number: NS000018, RA/0000/2011/004, TR/01/012. Unpublished study prepared by Dow Chemical Company. 90p.

50190314. Carbone, J. (2011) USEPA SCI-GROW Analysis for DCOIT Wood Preservative Applications. Project Number: NS000026, NS000018, 296. Unpublished study prepared by Dow Chemical Company. 12p.

50335202. 05/30/2017 (2017) Determination of Dislodgable Residues (DLR) from Southern Yellow Pine Treated with Viance 11-2016 (Active Ingredient DCOIT) Wood Treatment Solution Using a Wipe Sampling Roller Technique. Project Number: GLP/2017/015, 24P/2017/034, 24P/2005/059. Unpublished study prepared by The Dow Chemical Company. 38p.

50335204. Laganella, D. (2017) Determination of Viance 11-2016 Leaching using AWPA E11 for Active Ingredient 4, 5, dichloro-2-n-octy-4-isothiazolin-3-one (DCOIT). Project Number: GLP/2017/064, AWPA/E11, GLP/2017/033. Unpublished study prepared by The Dow Chemical Company. 48p.

50335205. Archer, K. (2017) Viance 11-2016: Soil Depletion Study in Accordance with American Wood Protection Association Standard E20. Project Number: VIAP001, AWPAE20. Unpublished study prepared by VIANCE, LLC. 34p.

50492901. Archer, K. (2018) Revised Data Matrix for Viance 11-2016. Unpublished study prepared by Viance, LLC. 7p.